

# **AUTOMATED VIDEO PRODUCTION SYSTEM AND METHOD USING EXPERT VIDEO PRODUCTION RULES FOR ONLINE PUBLISHING OF LECTURES**

## **Abstract of Disclosure**

An automated system and method for producing videos using expert video production rules. The automated video production system and method of the present invention is particularly well-suited for the online publishing of lectures. The system of the present invention includes a camera system for capturing the lecture, such as an audience-tracking camera and a non-intrusive lecturer-tracking camera. Moreover, each camera may be controlled by a cinematographer. Tracking of a subject is performed using a history-based, reduced-motion tracker that sets up a camera shot based on the subject's movement history and leaves the shot fixed until the camera is switched. The system also includes a virtual director module having a probabilistic finite state machine (FSM) module that uses probabilistic rules and the expert video production rules to determine a current camera view.

## Figures

Figure 1: A diagram illustrating the structure of a document. It shows a vertical stack of pages, with the top page labeled 'Page 1' and the bottom page labeled 'Page 45'. The pages are numbered sequentially from 1 to 45. The diagram is oriented vertically, with the page numbers running from top to bottom.